CT432

CROCUS TECHNOLOGY
Intelligence in Sensing™

XtremeSense® TMR with High dV/dt Immunity, Ultra-Low Noise and <0.7% Total Error Contact Current Sensor

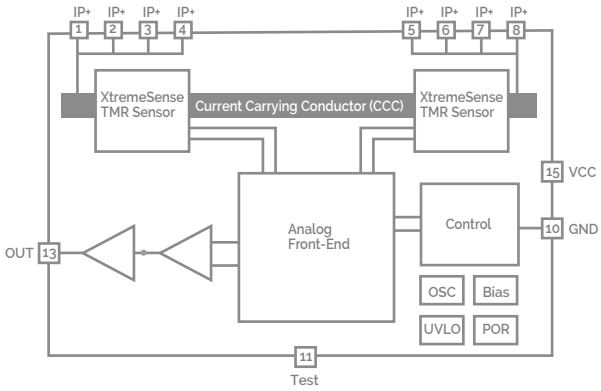
CT432: Key Advantages of Superior Sensing Solution

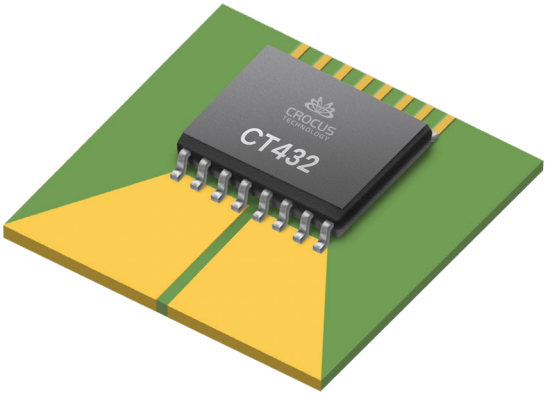
- Total Output Error: <1.0% FS (Max.) over Temperature
- High dV/dt Immunity
- Factory-trimmed offset and sensitivity over temperature
- Immunity to Common Mode Fields: -54 dB
- High Bandwidth (1 MHz) & Response Time (~300 ns)

Features

- Current Ranges
  - ±20.0 A and ±20.0 A
  - ±30.0 A and ±30.0 A
  - ±50.0 A and ±50.0 A
  - ±65.0 A and ±65.0 A
- 5 kV_{RMS} Isolation Voltage per IEC 62368 and UL1577
- Integrated Current Carrying Conductor
- Linear Analog Output
- Supply Current: ~6.0 mA
- Supply Voltage: 4.75 V to 5.50 V
- 16-lead SOIC-Wide Package

CT432 Diagrams





CT432 Applications

PLC's/Control Boards

Printers/Copiers

Solar/Power Inverters

Outdoor Products

Smart Appliances

Residential HVAC

Smart e-Meters

Motor Control

Commercial HVAC

Battery Management

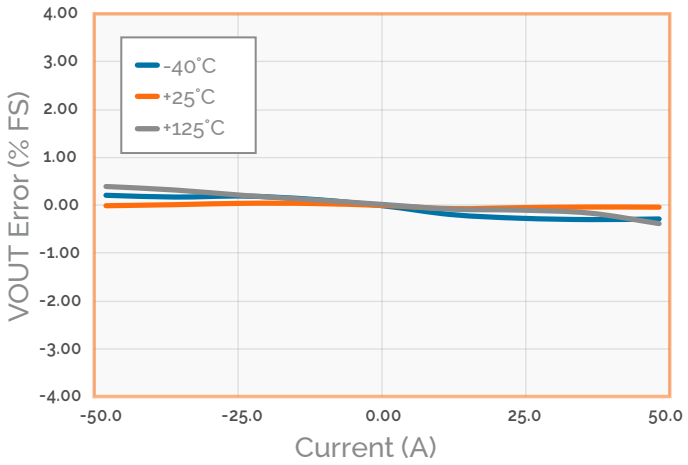
Industrial Appliances

Power Supplies

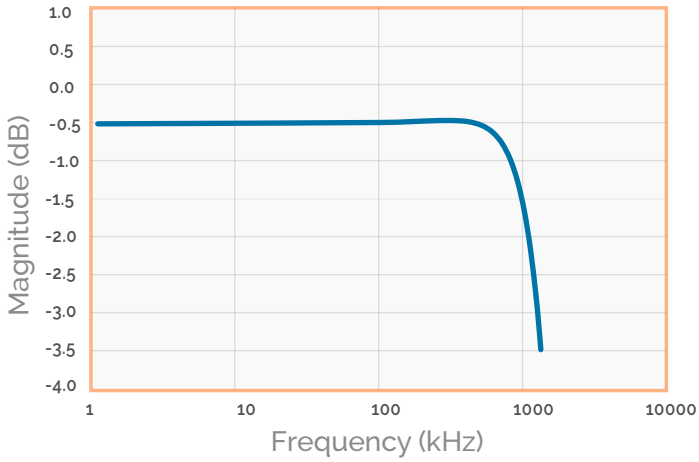
CT432: XtremeSense® TMR Ultra-Low Noise, <0.7% Contact Current Sensor

CT432 Performance Advantage

Total Output Error Over Temperature



Frequency Response



Part Number	Current Range (I_{PMAX})	Sensitivity (mV/A)	Package	Operating Temperature Range	Packaging Method
CT432-HSWF20MR	±20	100	-40˚C to +125˚C	16-lead SOIC-Wide 10.21 x 10.31 x 2.54	Tape & Reel
CT432-HSWF30MR	±30	66.7			
CT432-HSWF50MR	+50	40			
CT432-HSWF65MR	±65	30.8			
CT432-HSWF20DR	20	200			
CT432-HSWF30DR	30	133.3			
CT432-HSWF50DR	50	80			
CT432-HSWF65DR	65	61.5			
AEC-Q100 Grade 1					
CT432-ASWF20MR	±20	100	Grade 1 -40˚C to +125˚C	16-lead SOIC-Wide 10.21 x 10.31 x 2.54 mm	Tape & Reel
CT432-ASWF30MR	±30	66.7			
CT432-ASWF50MR	±50	40			
CT432-ASWF65MR	±65	30.8			
CT432-ASWF20DR	20	200			
CT432-ASWF30DR	30	133.3			
CT432-ASWF50DR	50	80			
CT432-ASWF65DR	65	61.5			

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